ELSEVIER

Mathematics and Computers in Simulation 55 (2001) 645–648

MATHEMATICS AND COMPUTERS IN SIMULATION

www.elsevier.nl/locate/matcom

Author index of volume 55

(The issue number is given in front of the page number)

Agosteo, S., C. Birattari, Foglio Para A., M. Silari and **L. Ulrici,** FLUKA simulations and measurements for a dump for a 250 GeV/c hadron beam (1–3) 3–14
Alexandrov, V., *see* **Dimov, I.** (1–3) 25–35
Angelova, D.S., Tz.A. Semerdjiev, V.P. Jilkov and **E.A. Semerdjiev,** Application of a Monte Carlo method for tracking maneuvering target in clutter (1–3) 15–23
Baboolal, S. Finite-difference modeling of solitons induced by a density hump in a plasma multi-fluid (4–6) 309–316
Bellotti, E., *see* **Nilsson, H.-E.** (1–3) 199–208
Benka, O., *see* **Dubus, A.** (1–3) 37–48
Bertoni, A., *see* **Jacoboni, C.** (1–3) 67–78
Birattari, C., *see* **Agosteo, S.** (1–3) 3–14
Bishop, A.R., *see* **Kevrekidis, P.G.** (4–6) 449–462
Bordone, P., *see* **Jacoboni, C.** (1–3) 67–78
Boyd, J.P. and **G.-Y. Chen,** Weakly nonlinear wavepackets in the Korteweg–de Vries equation: the KdV/NLS connection (4–6) 317–328
Brennan, K., *see* **Nilsson, H.-E.** (1–3) 199–208
Brown, K.G., *see* **Choudhury, S.R.** (4–6) 377–391
Brunetti, R., *see* **Jacoboni, C.** (1–3) 67–78
Cai, D., D.W. McLaughlin and **J. Shatah,** Spatiotemporal chaos in spatially extended systems (4–6) 329–340
Calini, A., *see* **Schober, C.M.** (4–6) 351–364
Calini, A.M. and **T.A. Ivey,** Knot types, Floquet spectra, and finite-gap solutions of the vortex filament equation (4–6) 341–350
Campbell, L.J. and **S.A. Maslowe,** A numerical simulation of the nonlinear critical layer evolution of a forced Rossby wave packet in a zonal shear flow (4–6) 365–375
Chen, G.-Y., *see* **Boyd, J.P.** (4–6) 317–328
Choudhury, S.R. and **K.G. Brown,** Novel dynamics in the nonlinear evolution of the Kelvin–Helmholtz instability of supersonic anisotropic tangential velocity discontinuities (4–6) 377–391
Daripa, P. and **R.K. Dash,** Weakly non-local solitary wave solutions of a singularly perturbed Boussinesq equation (4–6) 393–405
Dash, R.K., *see* **Daripa, P.** (4–6) 393–405
Dimov, I., V. Alexandrov and **A. Karaivanova,** Parallel resolvent Monte Carlo algorithms for linear algebra problems (1–3) 25–35

Donagi, R.Y. and **E. Previato,** Abelian solitons (4–6) 407–418
Dougalis, V.A., *see* **Pelloni, B.** (4–6) 595–606
Draayer, J.P., *see* **Ludu, A.** (4–6) 533–540
Draayer, J.P., *see* **Stoitcheva, G.** (4–6) 621–625
Dubus, A., M. Rösler and **O. Benka,** Monte Carlo simulation of kinetic electron emission induced by MeV He^{+} and He^{++} ions incident on polycrystalline aluminium (1–3) 37–48
Entacher, K. Discrepancy estimates based on Haar functions (1–3) 49–57
Foglio Para, A., *see* **Agosteo, S.** (1–3) 3–14
Hjelm, M., *see* **Nilsson, H.-E.** (1–3) 199–208
Iron, D. and **M.J. Ward,** Spike pinning for the Gierer–Meinhardt model (4–6) 419–431
Iverson, R.B. and **Y.L. Le Coz,** A floating random-walk algorithm for extracting electrical capacitance (1–3) 59–66
Ivey, T.A., *see* **Calini, A.M.** (4–6) 341–350
Jacoboni, C., A. Bertoni, P. Bordone and **R. Brunetti,** Wigner-function formulation for quantum transport in semiconductors: theory and Monte Carlo approach (1–3) 67–78
Jilkov, V.P., *see* **Angelova, D.S.** (1–3) 15–23
Johnson, R.S., *see* **Killen, S.M.** (4–6) 463–472
Jordan, R. and **C. Josserand,** Statistical equilibrium states for the nonlinear Schrödinger equation (4–6) 433–447
Josserand, C., *see* **Jordan, R.** (4–6) 433–447
Karaivanova, A., *see* **Dimov, I.** (1–3) 25–35
Keller, A. Hierarchical Monte Carlo image synthesis (1–3) 79–92
Kevrekidis, P.G., K.Ø. Rasmussen and **A.R. Bishop,** Comparison of one-dimensional and two-dimensional discrete breathers (4–6) 449–462
Killen, S.M. and **R.S. Johnson,** Propagation of axi-symmetric nonlinear shallow water waves over slowly varying depth (4–6) 463–472
King, R.B. The development of the concept of Painlevé chains for the classification of integrable higher-order differential equations (4–6) 473–482
Kosina, H. and **M. Nedjalkov,** The Monte Carlo method for semi-classical charge transport in semiconductor devices (1–3) 93–102
Kosina, H., *see* **Nedjalkov, M.** (1–3) 191–198
Kraenkel, R.A. and **A.I. Zenchuk,** Modified Korteweg-de Vries hierarchy with hodograph transformation: Camassa–Holm and Harry–Dym hierarchies (4–6) 483–491
Langtry, T.N. A construction of higher-rank lattice rules (1–3) 103–111
Lanson, N. and **J.P. Vila,** Meshless methods for conservation laws (4–6) 493–501
Le Coz, Y.L., *see* **Iverson, R.B.** (1–3) 59–66
Lécot, C. Quasi-randomized numerical methods for systems with coefficients of bounded variation (1–3) 113–121
Lécot, C. and **W.Ch. Schmid,** Particle approximation of convection–diffusion equations (1–3) 123–130
L'Ecuyer, P. and **R. Simard,** On the performance of birthday spacings tests with certain families of random number generators (1–3) 131–137
L'Ecuyer, P., *see* **Lemieux, C.** (1–3) 139–148
LeMesurier, B.J. Multi-focusing and sustained dissipation in the dissipative nonlinear Schrödinger equation (4–6) 503–517
Lemieux, C. and **P. L'Ecuyer,** On selection criteria for lattice rules and other quasi-Monte Carlo point sets (1–3) 139–148

Liang, Y. and **P.A. Whitlock,** A new empirical test for parallel pseudo-random number generators (1–3) 149–158
Lu, X. Symplectic computation of solitary waves for general Sine–Gordon equations (4–6) 519–532
Ludu, A. and **J.P. Draayer,** Non-linearity and self-similarity: patterns and clusters (4–6) 533–540
Ludu, A., *see* **Stoitcheva, G.** (4–6) 621–625
Malfliet, W. and **B. Rombouts,** Dressed shock waves in a nonlinear LC circuit (4–6) 541–547
Marseguerra, M. and **E. Zio,** Looking at Monte Carlo simulation for describing nonlinear sorption in groundwater contaminant transport (1–3) 167–176
Marseguerra, M., E. Padovani and **E. Zio,** Effects of model variability on the safeguard analysis of gamma-contaminated truck loads (1–3) 159–166
Maslowe, S.A., *see* **Campbell, L.J.** (4–6) 365–375
McLaughlin, D.W., *see* **Cai, D.** (4–6) 329–340
Mickens, R.E. A nonstandard finite difference scheme for a nonlinear PDE having diffusive shock wave solutions (4–6) 549–555
Miller, J.R. Stability properties of solitary waves in a complex modified KdV system (4–6) 557–565
Mori, M. Pseudo random sequences generated by piecewise linear maps from the view point of dynamical system (1–3) 177–189
Nakao, T., *see* **Ota, M.** (1–3) 223–230
Nedjalkov, M. and **H. Kosina,** Variance of the ensemble Monte Carlo algorithm for semiconductor transport modeling (1–3) 191–198
Nedjalkov, M., *see* **Kosina, H.** (1–3) 93–102
Nicholls, D.P. On hexagonal gravity water waves (4–6) 567–575
Nilsson, H.-E., E. Bellotti, M. Hjelm and **K. Brennan,** A comparison between different Monte Carlo models in simulation of hole transport in 4H-SiC (1–3) 199–208
Ogawa, S. On a deterministic approach to the numerical solution of the SDE (1–3) 209–214
Ökten, G. High dimensional simulation (1–3) 215–222
Ota, M., T. Nakao and **M. Sakamoto,** Numerical simulation of molecular motion around laser microengine blades (1–3) 223–230
Padovani, E., *see* **Marseguerra, M.** (1–3) 159–166
Panayotaros, P. Stability of traveling water waves on the sphere (4–6) 577–584
Pelinovsky, D.E. A mysterious threshold for transverse instability of deep-water solitons (4–6) 585–594
Pelloni, B. and **V.A. Dougalis,** Numerical modelling of two-way propagation of non-linear dispersive waves (4–6) 595–606
Pennetta, C., L. Reggiani and **Gy. Trefán,** A Monte Carlo percolative approach to reliability analysis of semiconductor structures (1–3) 231–238
Previato, E., *see* **Donagi, R.Y.** (4–6) 407–418
Ramos, J.I. Spatio-temporal patterns in excitable media with non-solenoidal flow straining (4–6) 607–619
Rasmussen, K.Ø., *see* **Kevrekidis, P.G.** (4–6) 449–462
Reggiani, L., *see* **Pennetta, C.** (1–3) 231–238
Rombouts, B., *see* **Malfliet, W.** (4–6) 541–547
Rösler, M., *see* **Dubus, A.** (1–3) 37–48
Roussille, O., *see* **Smidts, O.F.** (1–3) 259–270
Sakamoto, M., *see* **Ota, M.** (1–3) 223–230
Schmid, W.Ch. Projections of digital nets and sequences (1–3) 239–247
Schmid, W.Ch. and **A. Uhl,** Techniques for parallel quasi-Monte Carlo integration with digital sequences and associated problems (1–3) 249–257
Schmid, W.Ch., *see* **Lécot, C.** (1–3) 123–130

Schober, C.M. and **A. Calini,** Mel'nikov analysis of a symmetry-breaking perturbation of the NLS equation (4–6) 351–364
Semerdjiev, E.A., *see* **Angelova, D.S.** (1–3) 15–23
Semerdjiev, Tz.A., *see* **Angelova, D.S.** (1–3) 15–23
Shatah, J., *see* **Cai, D.** (4–6) 329–340
Silari, M., *see* **Agosteo, S.** (1–3) 3–14
Simard, R., *see* **L'Ecuyer, P.** (1–3) 131–137
Smidts, O.F. and **O. Roussille,** Sensitivity analysis in the migration of radionuclides: differential Monte Carlo versus double randomization (1–3) 259–270
Sobol′, I.M. Global sensitivity indices for nonlinear mathematical models and their Monte Carlo estimates (1–3) 271–280
Stoitcheva, G., A. Ludu and **J.P. Draayer,** Antisoliton model for fission modes (4–6) 621–625
Taha, T., J. Bona, A. de Bouard and **H. Segur,** Foreword (4–6) 307–307
Trefán, Gy., *see* **Pennetta, C.** (1–3) 231–238
Uhl, A., *see* **Schmid, W.Ch.** (1–3) 249–257
Ulrici, L., *see* **Agosteo, S.** (1–3) 3–14
Vila, J.P., *see* **Lanson, N.** (4–6) 493–501
Ward, M.J., *see* **Iron, D.** (4–6) 419–431
Wegenkittl, S. Gambling tests for pseudorandom number generators (1–3) 281–288
Whitlock, P.A., *see* **Liang, Y.** (1–3) 149–158
Zenchuk, A.I., *see* **Kraenkel, R.A.** (4–6) 483–491
Zio, E., *see* **Marseguerra, M.** (1–3) 159–166
Zio, E., *see* **Marseguerra, M.** (1–3) 167–176